Integrated Powerhead for Methane Propulsion Systems, Phase I

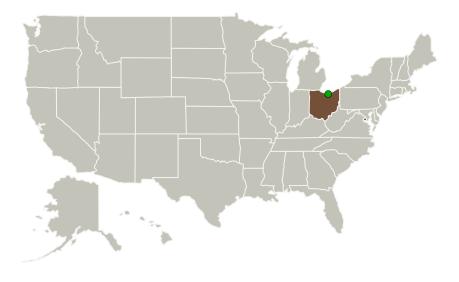


Completed Technology Project (2017 - 2017)

Project Introduction

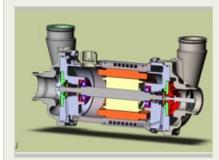
Development of an electric powerhead or Electropump for a 25,000 lb class Methane engine. Components for integrated RCS (~100-lb class) and Main Propulsion System (MPS) (25,000-lb class) feed systems (utilizing common propulsion tanks)"

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
TGV Rockets, Inc.	Lead Organization	Industry Small Disadvantaged Business (SDB)	Washington, District of Columbia
Glenn Research Center(GRC)	Supporting Organization	NASA Center	Cleveland, Ohio

Primary U.S. Work Locations	
District of Columbia	Ohio



Integrated Powerhead for Methane Propulsion Systems, Phase I Briefing Chart Image

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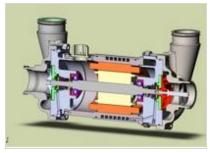


Integrated Powerhead for Methane Propulsion Systems, Phase I



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Images



Briefing Chart Image

Integrated Powerhead for Methane Propulsion Systems, Phase I Briefing Chart Image (https://techport.nasa.gov/imag e/133180)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

TGV Rockets, Inc.

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

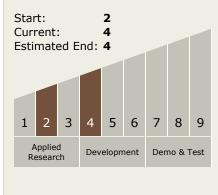
Program Manager:

Carlos Torrez

Principal Investigator:

Earl W Renaud

Technology Maturity (TRL)





Small Business Innovation Research/Small Business Tech Transfer

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Completed Technology Project (2017 - 2017)

Technology Areas

Primary:

- **Target Destinations**

The Moon, Mars, Outside the Solar System, The Sun, Earth, Others Inside the Solar System

